

HOW LIVING THINGS GROW AND CHANGE

Characteristics of Living and Non-living Things

What are LIVING things?

Living things are ALIVE!

Plants, animals, and people are living things.

Living things can **grow**.



Living things

Some living

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*Let's check what we have learned so far:
Name one example of a living thing.*

What Do Plants Need to Stay ALIVE?

Plants need air, water, and sunlight in order to live.

Plants need space to grow too.



What Do Animals Need to Stay ALIVE?

Animals need air, water, food, and a place to live. A **shelter** is a safe place for an animal to be

How do people grow and change?

People and animals grow from a baby to an adult.

How do animals grow and change?

Some animals look like their parents when they are born, like a puppy.

Some animals do not look like their parents when they are born, like a frog. A frog is an egg and then tadpole, and then it becomes a frog, which is what its parents look like.

Life Cycle

Life Cycle

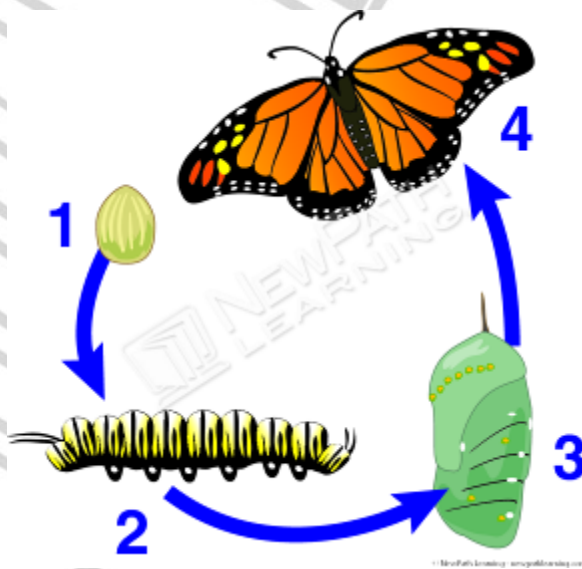
A butterfly

1 egg → 2 larva → 3 pupa → 4 adult



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Life Cycle of a Frog

A frog's life cycle starts with an egg too.

egg → tadpole → adult frog



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A fro

A Plant's Life Cycle

A plant's life cycle starts with a seed.

Inside the seed is a tiny new plant.

The outside of the seed, the **seed coat**, protects the new plant until it is ready to grow.

A seed needs four special things in order to grow into a new plant:

- Water
- Warmth from the Sun
- Air
- Room to grow

How Does a Seed Grow?

1. The seed is planted and gets enough water and room to grow.
2. A small root grows down into the soil from the seed.
3. Then, the stem grows up toward the top of the soil. Then the stem breaks through the soil as it grows. When the stem grows and begins to develop leaves, it is called a **seedling**.
4. Then it grows into an adult plant.



*Let's check what we have learned so far:
What are the four things a seed needs to grow?*

What Are NON-LIVING Things?

Non-living things were never alive.
Non-living things do not grow or change by themselves.
Examples of non-living things: desk, pencil, and book.
Non-living things in nature: water, rocks, and sunlight.

*Let's check what we have learned so far:
Name one non-living thing found in nature.*